Insights from a Study of the Grameen Approach to Extending Telecommunications Access to Marginal Customers

LIRNEasia

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Research questions in context

- Emergence of innovative solutions to network development (WDR Theme for 2004/2005: Diversifying Participation in Network Development)
- Grameen" approach as an example
- Unbundling the model: incentives to innovate & design/organizational factors contributing to success
- Replication in the context of changing/different markets, technologies & regulatory policies

The Village Phone program in brief...

Grameen Bank - MFI

 selects new VPOs from borrower pool; provides borrower with USD133 loan to buy a cellular phone with GrameenPhone network; manages VP program at village level; (service fee: 7.5%)

□ GrameenPhone – MNO (for profit company)

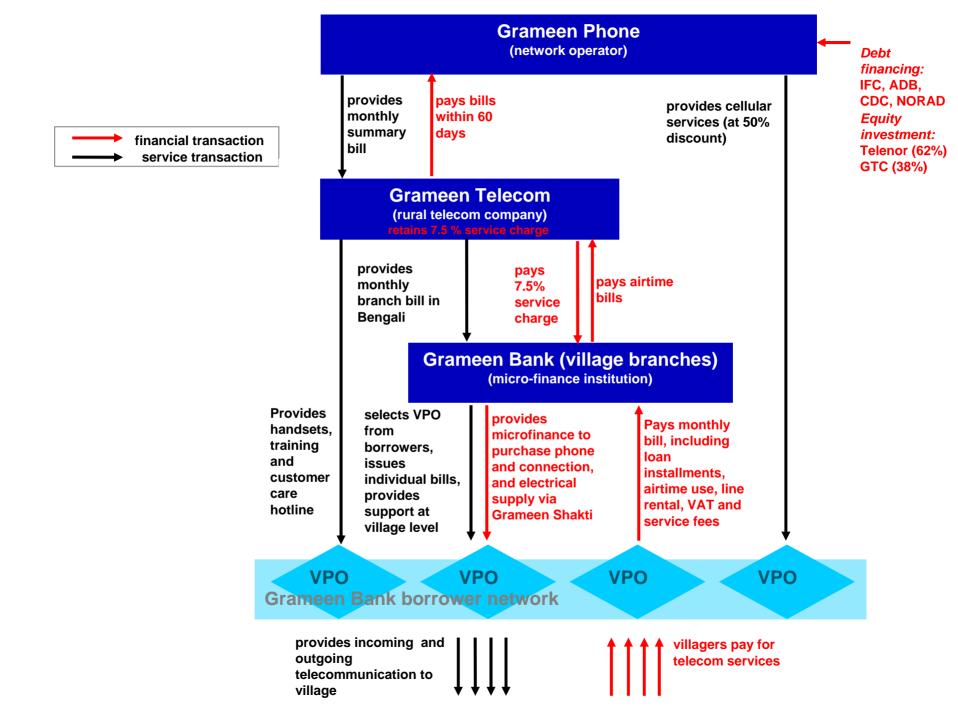
 owns & operates network; provides airtime at 50% discount; issues single bill to VP program

Grameen Telecom Company - rural telecom company (not for profit)

 sells handset to VPO; provides training; translates and issues bills to GB branches; (service fee: 7.5%); (38% shareholder in GP)

□ Village Phone operators – local resellers (selected GB clients)

resell telecom services to fellow villagers



A 'win-win' outcome for all

- GP earns revenue from volume sales to VP program; 16% of GP's revenues come from 4% of its customers – the VPOs; CSR profile is enhanced
- □ GTC extends rural telecom, covers costs (% on airtime revenue+ share dividends)
- □ GB gets loan income + % on airtime sales; promotes poverty alleviation
- VPOs earn income via viable business; recognition, empowerment, etc.
- Previously unserved rural villages are served; save on travel time and cost

Rapid growth in village phones

Source: Growth in Village Phone Operators (1997- Aug.2005) Source: Grameen Telecom (2005), www.grameenphone.com 180,000 August 160,000 2005 140,000 120,000 100,000 60,000

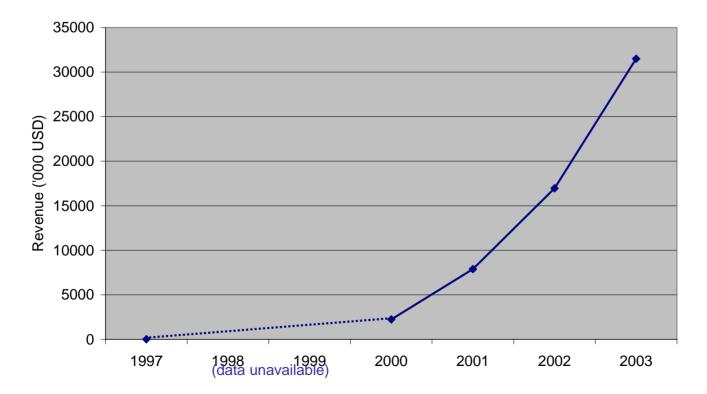
40,000

20,000

Revenue from VPs

Revenue from Village Phones (USD)

Source: www.grameenphone.com, GP Annual Report 2003 Exchange rate of BTK66 to USD1 used, from www.xe.com, September 07, 2005

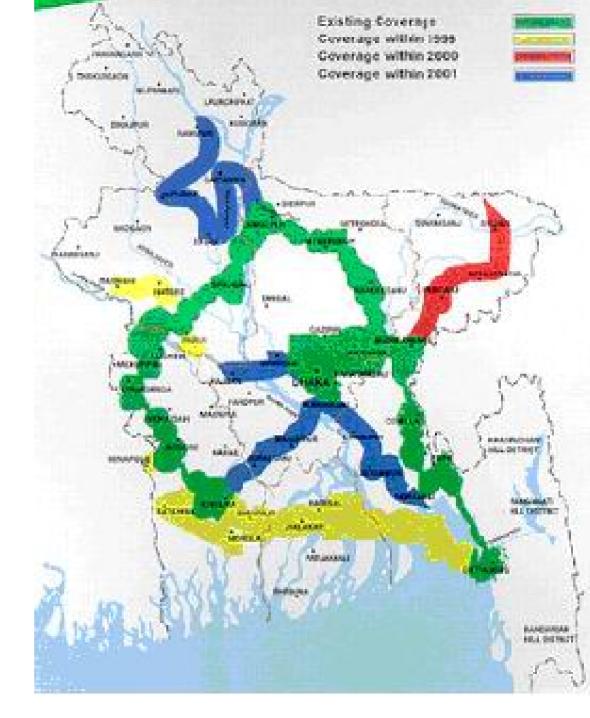


How did Grameen achieve this?

Incentives to innovate

- Informed perception of marginal customers as a source of profit, based on GB's years of experience with microfinance
- Access to nation-wide backbone infrastructure with the acquisition of a 1800 km long fiber optic network from Bangladesh Railway













How did Grameen achieve this?

Design/organizational features

- "Grameen" brand image ensured buy-in of VPOs and made it difficult for competitors to make in-roads
- Reduced risk of non-payment: "power" relationship between GB and the borrowers- defaulters run the risk of jeopardizing their reputation in the community/ losing chance of obtaining future loans
- Structuring of costs GP treats VP as a single customer; reduces billing costs
- "Rod vs. fish" model boosts sustainability and repayment
- Discounted airtime (50%)

Why have other operators in Bangladesh not replicated this model?

- □ GP has exclusive access to 1800km of fiber optic network along railway lines
- Grameen has a unique brand image (ensures 'buy-in' of VPOs; hard to compete with)
- BUT: current context could see replications/modified applications of this approach
- Large investment flows from global telecom companies into domestic companies since late 2004
- New interconnection deals being signed with incumbent
- Falling costs of handsets

Replication in the context of different market, regulatory and technological conditions

Element of model	Necessary condition?
Infrastructure coverage	YES
Airtime discount	YES
Micro-finance for start-up of VPO business	NO; <u>handset</u> costs are falling; USD20 by early 2006, USD15 by 2008
Grass-root organization (MFI)	NO; reseller option (network operators transfers risk of providing service to marginal users) can be used
'Middle man' organization:	
Payment collection	NO; pre-paid approach circumvents this issue
 selection of VPOs at village level Training and handset provision Coordination 	NO; pre-paid approach circumvents this issue
	NO; can be undertaken by MFI
	YES, IF many organizations involved (e.g. Uganda)

Conclusions

- Perception that it is not economical to serve marginal customers is a myth
- Developmental & business goals are not incompatible
- The key to success & sustainability is to craft a solution that overcomes the relatively high transaction costs associated with serving marginal users
- There is no cookie-cutter approach to the problem of transaction costs (e.g. screening creditworthy users and preventing default); this study highlights 3 possible solutions:
- The "Grameen" model
- The pre-paid option
- The re-seller approach